

CLAIM AMENDMENTS

Claims 1-4 (Previously Cancelled)

Claim 5 (Previously Presented) A system for establishing wirelessly a wireless infrastructure network to communicate with remote terminals, comprising:

- a protocol conversion module for converting time discrete input information to information formatted for sending to remote terminals in data packets;

- a router module for internally routing said data packets;

- said protocol conversion module for converting the time discrete input information into an Internet Protocol base protocol;

- a wireless protocol module for creating at least one wireless communication link to the remote terminals;

- wherein said wireless protocol module causes each individual remote terminal to periodically exchange a dynamically generated routing table indicative of all of the then available routes to each individual one of the remote terminals within an autonomous wireless communication system;

- wherein said wireless protocol module further causes one remote terminal having a then available route to at least yet another individual one of the remote terminals to be established as a primary station;

- wherein said wireless protocol module still further causes all other remote terminals in said autonomous wireless communication system to be identified as secondary stations; and

- wherein said wireless protocol module further causes a point to multi-point link on a single wireless channel to be created between said primary station and only those secondary stations having a then available route to at least another individual one of the secondary stations;

- a wireless device interface module for providing wireless transceiver interfacing;

and

at least one transceiver for responding to said interface module for sending information wirelessly to a remote terminal via the created at least one wireless communication link.

Claim 6 (Previously Presented) A system according to claim 5, wherein said time discrete input information is instrumentation time discrete information in an Internet protocol based protocol.

8-43 (Cancelled)